| PATENT COOPI | ERATION TREA | (| 2004, 6, 30 | | |
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| om the TERNATIONAL SEARCHING AUTHORITY | • | - Ja | | | |
| o: SHIGA Masatake | | PCT | GAINT L PATENTON | | |
| 104-8453 | WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) | | | | |
| 2-3-1 Yaesu , Chuo-ku , Tokyo | | | | | |
| | Date of mailing (day/month/year) | 29. 6. 2 | 2004 | | |
| | | | 2004 | | |
| Applicant's or agent's file reference | FOR FURTHER | FOR FURTHER ACTION See paragraph 2 below | | | |
| PC-9094 International application No. International filing d | ate (day/month/year) | Priority date (day/mo | | | |
| international approximation | 4.2004 | 07.0 | 4.2003 | | |
| Applicant SHOWA DENKO K.K. | | | <u> </u> | | |
| Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43b citations and explanations support Box No. VI Certain documents cited Box No. VII Certain defects in the internationa Box No. VIII Certain observations on the internationa | is.1(a)(i) with regard to n ing such statement l application | · | | | |
| 2. FURTHER ACTION If a demand for international preliminary examination International Preliminary Examining Authority ("IPEA") other than this one to be the IPEA and the chosen IPEA opinions of this International Searching Authority will If this opinion is, as provided above, considered to be a w a written reply together, where appropriate, with amendm PCT/ISA/220 or before the expiration of 22 months from For further options, see Form PCT/ISA/220. | has notified the Internation to be so considered. Written opinion of the IPE pents before the expiration | onal Bureau under Rul A, the applicant is invit on of 3 months from the | e 66.1 bis(b) that writte | | |
| 3. For further details, see notes to Form PCT/ISA/220. | | | | | |
| | Authorized office | er | 5D 872 | | |
| 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Japan Patent Office | Authorized office | | 5D 872 | | |

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/004959

| With regar | | | | | | |
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| . Williega | rd to the language. tl | his opinion has | been established | on the basis of the interna | ntional applicatio | n in the language |
| mhich it v | Ci ilana othor | nvice indicated 1 | under this item. | • | | |
| Thi | | | | ation from the original la | nguage into the f | following languag tional search (und |
| | | | guage of a transia | mon furnished for the pur | | |
| Rul | es 12.3 and 23.1(b)). | • | | | | |
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| . With rega | ard to any nucleotide | e and/or amino | acid sequence | disclosed in the internation | onal application a | and necessary to |
| • | vention, this opinion | nas been establ | isited on the out- | | | |
| a. type of | | | | | | |
| | a sequence listing table(s) related to | | isting | | | |
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| b. format | of material | | | | | |
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| c. time o | contained in the in | nternational app | lication as filed. | | | • |
| 님 | filed together with | the internation | al application in | computer readable form. | | |
| 믐 | furnished subseque | ently to this Au | thority for the pu | rposes of search. | | |
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| , [] _T | addition in the case | e that more than | one version or | copy of a sequence listing | and/or table rela | ating thereto has l |
| 3. Ir | addition, in the case ed or furnished, the the application as fi | e that more than required stateme led or does not | n one version or or cents that the inforego beyond the ap | copy of a sequence listing mation in the subsequent plication as filed, as appr | and/or table rela or additional cop opriate, were fur | ating thereto has be nies is identical to nished. |
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/ 004959

| Box No. V Reasoned statement uncitations and explanat | tions supporting such statement | | | | |
|---|---------------------------------|------|--|-----|--|
| 1. Statement | | | | | |
| Novelty (N) | Claims | 1-14 | | YES | |
| | Claims | | | NO | |
| Inventive step (IS) | Claims | | | YES | |
| | Claims | 1-14 | | NO | |
| Industrial applicability (IA) | Claims | 1-14 | | YES | |
| | Claims | | | NO | |

2. Citations and explanations

Docment1:JP 2001-56921 A (FUJITSU K.K.) 2001.02.27

Docment2:JP 2000-222715 A (SHOWA DENKO K.K.) 2000.08.11

In the document No.1, a magnetic recording medium comprising at least a non-magnetic undercoat layer, a first magnetic layer, a non-magnetic coupling layer, a second magnetic layer, and a protetive layer, in this order, on a non-magnetic substrate, wherein the second magnetic layer is anti-feromagnetically coupled with the first magnetic layer is shown.

In the document No.2, a various kinds of alloy are shown including CoCrZr alloy is shown.

Take it into consideration that there are not enough comparative examples and it's not proved that the CoCrZr alloy is the best choice in the known various kinds of alloy, it's easy for the person skilled in the art to exchange the alloy used in the magnetic recording medium shown in the document No.1 to the alloy shown in the document No.2.